

Application: 10/035,516

Attorney Docket No. 112.P14195

AMENDMENTS**IN THE SPECIFICATION:**

Please replace paragraph [0002] with the following amended paragraph:

[0002] The times and the technologies are ~~changed~~ changing day by day. The relative technologies of electronic devices are ~~progressed~~ progressing daily. The functions of electronic ~~product~~ products are also enhanced abruptly. Relatively, the computer ~~peripheries~~ peripherals are expanded more and more quickly to provide the required convenience in daily life. The scanner is a commonly seen computer ~~periphery~~ peripheral. The main function of the scanner is to retrieve an image of a scanned document and convert the retrieved image into electronic signals. And, the electronic signals are input to a computer to proceed image treatment.

Please replace paragraph [0004] with the following amended paragraph:

[0004] Please refer to FIG. 2A to FIG. 2C, which are the execution embodiments for the automatic document feeder carried by an optical scanner commonly seen in current market. Wherein the automatic document feeder 2 is arranged on the upper side of the prior optical scanner 1 to provide scanning job for the automatically fed document 30. When ~~proceeding~~ processing the automatically document-feeding scanning, the scanning module 14 moves along the guiding rod 13 to a lower edge of the optical scanner 1 and is secured thereof. The document 30 is driven into the position of the scanning window 16 by the friction force of the rotation motion of the roller set 21. The motion of automatic document feeding and scanning is then completed.

Please replace paragraph [0005] with the following amended paragraph:

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[0005] When the document 30 is placed by the prior automatic document feeder 2, because the document 30 placed in slant way or the change of friction coefficient on the surface of the roller set 21 due to frequent usage, a slant is generated on the document driven by the non-uniform friction force applied by the roller 21. A slant document 30 will be scanned and an erroneous or mistaken scanned product is completed. Therefore, it must depend on personnel to observe for changing or give up the scanning job of the automatic document feeder. So, it wastes lots of human power, time and material means. Above-mentioned problems are really needed to be solved among persons or industries to reduce the cost paid by the person or society and promote the industrial competition abilities of the country. Therefore, the break-through and solution for this problem is really urgent.

Please replace paragraph [0006] with the following amended paragraph:

[0006] To break-through and ~~solute~~ solve the above problem, several relative makers proposed that a plurality of black-line-patterns be arranged on the automatic document-feeder. Please refer to FIG. 3A to FIG. 3F, which show that the automatic document feeder 2 has plural black-line-patterns 23 of left-and-right symmetry ~~[[in]]~~ corresponding to the scanning window 16 of the optical scanner 1. The automatic document feeder 2 feeds the document 30 in. After reading the image variation of the black line patterns 23, the time is counted by a timer (not shown in the drawing) that is set with a preset value, through an appropriate time, the document 30 is detected. When the document 30 is fed in a slant way, only one side of the black line patterns is blocked by the document 30, so the motion will be stopped and an alarm is set off. When the document 30 is fed in normal way, two sides of the patterns will all be blocked by the document 30, a second detection will be executed for ~~securing~~ ensuring that no error happened and then a scanning is executed.

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Please replace paragraph [0007] with the following amended paragraph:

[0007] But to solve the above problem, not only are complicated detection steps ~~[[are]]~~ required, but also an increase of accessories for scanners s is needed. It is also impossible to accurately detect the slant quantity of the document. Since a single arrangement is only for a single machine, so for various scanners, a wide availability can not be obtained. Therefore, the prior solution can not appropriately and completely fulfill the requirement for the manufacturing industries. The problem still can not get a suitable solution that is urgently required by the manufacturing industries to promote the technology ~~of competition abilities~~.

Please replace paragraph [0010] with the following amended paragraph:

[0010] Step A: providing an optical scanner having an automatic document feeder and a document. The automatic document feeder has a colored pattern layer ~~[[in]]~~ corresponding to a scanning window of the optical scanner. The document has at least one side edge. When the document is fed into the automatic document feeder, the side edge is just located between the scanning window and the colored pattern layer.

Please replace paragraph [00044] with the following amended paragraph:

[0044] The main characteristic of the inspection method for an optical scanner with automatic document feeding is that a colored pattern layer of a color different from that of the operation document is provided in the automatic document feeder ~~[[in]]~~ corresponding to the optical scanner for providing the fed document to block the colored pattern layer and reach a function of detecting a slant value of the document.

Please replace paragraph [0048] with the following amended paragraph:

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[0048] Please refer to FIG. 5A and FIG. 5B. When the document 30 is automatically fed in initially, if the document 30 is slanted to the first direction (clock-wise direction) 43, the side 31 will move onto the scan line 17 firstly, and intercross with the scan line 17 to form a first side point 311. At this time, the first image retrieval is a first distance 41 detected between the first side point 311 and a reference point 221 positioned at the colored pattern layer 22. Wherein, the reference point 221 is positioned at an appropriate fixing point on the scan line 17. In a preferable embodiment of the present invention, the reference point 221 is the fixing point on the most outer or inner side. Of course, the reference point 221 may also be another fixing point that is provided for easy detection. These sorts of transformations may be executed easily according to the aforementioned description of the present invention, therefore they are not repetitiously described here any more. Afterwards, the document is fed in for an appropriate length 32, wherein the side 31 will intercross with the cross line 17 to form a second side point 312. At this time, the second image retrieval is a second distance 42 detected between the second side point 312 and the reference point 221.

Please replace paragraph [0056] with the following amended paragraph:

[0056] Step B: Actuating the automatic document feeder to feed in the document 51, a first image retrieval 511 is made for the document placed on the scanning window. Wherein, the first image retrieval is a first distance detected between the side placed on the scan line of the scanning window and a reference point positioned at the colored pattern layer. While the reference point is a fixing point of the colored pattern layer located at the most inner or outer side of the scan line, of course, the reference point may also be another fixing point provided for convenient detection.